PTO/SB/05 (06-03)

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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

١	pond to a collection of information unless it displays a valid Civib control number								
	Attomey Docket No.	44471/298745							
	First Inventor	Torahide Takahashi							
	Title	Heat Exchanger							
	Express Mail Label No.	EL 999329103 US							

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450							
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 24] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Reader Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS							
· - Claim(s)	ACCOMPANTING APPLICATION PARTS							
Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets 12] 5. Oath or Declaration [Total Sheets] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76	9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other:							
specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS								
19. CORRESPONI	JENCE ADDRESS							
Customer Number: 23370	OR Correspondence address below							
Name								
Address City Country	State Zip Code Fax							
Name (Print/Type) Robert F Righards	Registration No. (Attorney/Agent) 29 105							
Name (Print/Type) Robert E. Richards [Rebistration No. (Attorney/Agent) 29,105							

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ORIGINAL

PTO/SB/17 (10-03)

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FEE TO A NOMITTAL			Complete if Known						
FEE TRANSMITTA	┗\lbrack	Application Number							
for EV 2004		Filing Date				03/24/2004			
for FY 2004		First Named Inventor			tor	Torahide Takahashi			
Effective 10/01/2003. Patent fees are subject to annual revision.		Examiner Name				-			
Applicant claims small entity status. See 37 CFR 1.27		Art Unit							
TOTAL AMOUNT OF PAYMENT (\$) 900.00	F		_	44471/298745					
METHOD OF DAYMENT (shock all that apply)									
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)								
Check Credit card Money Other None	3. ADDITIONAL FEES Large Entity , Small Entity								
Deposit Account:	Fee	Fee	Fee	Fee		Fee Description			
Deposit Account 11-0855	Code		Code		C	·	Fee Paid 130		
Number Deposit LUI DA TRICK CTOCKTON I I D	1051 1052	130 50	2051 2052			narge - late filing fee or oath narge - late provisional filing fee or	130		
Account Name KILPATRICK STOCKTON LLP					cover	sheet			
The Director is authorized to: (check all that apply)	1053	130	1053			English specification ling a request for ex parte reexamination			
Charge fee(s) indicated below	1804	2,520 920*	1812 2 1804	•		esting publication of SIR prior to	· · · · · · · · · · · · · · · · · · ·		
Charge any additional fee(s) or any underpayment of fee(s)	1004	320	1004	320		niner action			
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*		uesting publication of SIR after niner action			
FEE CALCULATION	1251	110	2251	55	Exte	nsion for reply within first month			
1. BASIC FILING FEE	1252	420	2252	210	Exte	nsion for reply within second month			
Large Entity Small Entity	1253	950	2253	475	Exte	nsion for reply within third month			
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Exte	nsion for reply within fourth month			
1001 770 2001 385 Utility filing fee 770	1255	2,010	2255	1,005	Exte	nsion for reply within fifth month			
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notic	ce of Appeal			
1003 530 2003 265 Plant filing fee	1402	330	2402			g a brief in support of an appeal			
1004 770 2004 385 Reissue filing fee	1403	290	2403		-	uest for oral hearing			
1005 160 2005 80 Provisional filing fee		1,510	1			on to institute a public use proceeding			
SUBTOTAL (1) (\$) 770	1452	110	2452			on to revive - unavoidable			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330 1,330	2453 2501			ion to revive - unintentional			
Fee from Ext <u>ra Claims below</u> Fee Paid	1502	480	2502			y issue fee (or reissue) gn issue fee			
Total Claims 17 - 20 = 0 X 18 = 0	1503	640	2503			t issue fee			
Independent	1460	130	1460	130	Petit	ions to the Commissioner			
Multiple Dependent =	1807	50	1807	50	Proc	essing fee under 37 CFR 1.17(q)			
Large Entity Small Entity	1806	180	1806	180	Subn	nission of Information Disclosure Stmt			
Fee Fee Fee Fee <u>Fee Description</u> Code (\$)	8021	40	8021	40	Reco	ording each patent assignment per			
1202 18 2202 9 Claims in excess of 20	1809	770	2809			erty (times number of properties) a a submission after final rejection			
1201 86 2201 43 Independent claims in excess of 3	1009	,,,	2003	555		CFR 1.129(a))	<u> </u>		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385		each additional invention to be nined (37 CFR 1.129(b))			
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385		juest for Continued Examination (RCE)			
1205 18 2205 9 "Reissue claims in excess of 00 and over original patent	1802		1802		Rec	quest for expedited examination			
	Other	of a design application her fee (specify)							
SUBTOTAL (2) (\$) 0 **or number previously paid, if greater; For Reissues, see above		/	Basic F	iling Fe	ee Pa	id SUBTOTAL (3) (\$) 130			
SUBMITTED BY (Complete (if applicable))									
Name (Print/Type) Robert E., Richards //	//T F		tion No.	29	105	Telephone 404.815.6500			
Signature		Affòrney/	(Agent)	1-0,		Date 03/24/2004	<u> </u>		

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